PA 9 TL06

BRUYEVICH, N. G.

May 1947

USSR/Errors

Mechanics, Applied

"On the Error in the Velocity Ratio of a Plane Cam Mechanism," N. G. Bruyevich, 6 pp

"Izv Ak Nauk Tekh Nauk" No 5

Geometric and algebraic treatment giving formulas that may be used in determining the amount of error in subject mechanism.

97106

BRUVEVICH, N. G.

Makhanizmy dlya vypolneniya mate maticheskikh operatsiy. Tekhn. Entsiklop. Ediya (2-e IZD.), T. 13, 66-91.

SO: Mathematics in the USSR, 1917-1947.

Edited by Kurosh, A.G.,

Markushevich, A.I.,

Rashevskiy, P.K.

Moscow-Leningrad, 1948

VAVILOV, S.I., akademik, otvetstvennyy redaktor; VOLGIN, V.P., akademik; redaktor; BRUYEVICH. H.G., akademik, redaktor; DEPORIH, A.M., akademik, redaktor; LIKHTENSHTEYN, Ye.S., redaktor; PODGORNENSKAYA, TS.M., redaktor izdatel'stva; SEKOL'NIKOVA, S.A., tekhnicheskiy redaktor

[General meeting of the academy of sciences of the U.S.S.R. devoted to the observance of the thirtieth anniversary of the Great October Socialist revolution] Obshchee sobranie Akademii nauk SSSR posvia-shchennoe tridtsatiletiiu Velikoi Oktiabr'skoi sotsialisticheskoi revoliutsii; doklady, 23 oktiabria - 2 noiabria 1947 goda. Moskva, 1948. 718 p. (MIRA 9:10)

1. Akademiya nauk SSSR.
(Social sciences) (Science)

KOVDA, V.A.; KOMAROVICH, M.A.; LIKHTENSHTEYN, Ye.S.; SECAL, B.I.; VAVILOV, S.I., akademik, redaktor; BRUYEVICH, N.C., akademik redaktor; BARDIN. I.P., akademik, redaktor; VOLGIN, V.P., akademik, redaktor; DEBCRIN, A.M., akademik, redaktor; MINTS, I.I., akademik, redaktor; CREELI, L.A., akademik, redaktor; PODGCRNENSKAYA, TS.M., redaktor izdatelistva; SHKOLINIKOVA, S.A., tekhnicheskiy redaktor

[220th anniversary of the Academy of Sciences of the U.S.S.R.: in two volumes] 220 let Akademii nauk SSSR; v dvukh tomakh [Red. kollegiia S.I.Vavilov i dr. Sost. V.A.Kovda i dr.] Moskva. Vol. 1. 1948. 430 p. (MIRA 9:10)

1. Akademiya nauk SSSR. Yubileynaya sessiya, Moskow, 1945. (Academy of Sciences of the U.S.S.R.)

BRUYEVICH, N. G.

PA 66T20

USSR/Academy of Sciences

Mar 1948

"Basic Results of the Scientific Activity of the Academy of Sciences USSR in 1947," Academician N. G. Bruyevich, Academician Secy, Acad Sci USSR, 9 pp

"Vest Ak Nauk SSSR" No 3

Summary of some of the more important contributions made by the Dept of Physicomath Sci by solving 45 problems; Dept of Chem Sci, 31 problems; Dept of Geol-Geog Sci, 36 problems; Dept of Biol Sci, 83 problems; Dept of Tech Sci with 36; Dept of Hist and Phil with 42; and the Dept of Lit and Lang with 33 solutions.

66**T2**0

BRUYEVICH, N. G.

USSR/Academy of Sciences Mathematics Jan/Feb 1948

"Requirements for Competition for Prize imeni P. L. Chebyshev for Best Work in the Field of Mathematics," L. A. Orbeli, Vice-pres, Acad Sci USSR; N. G. Bruyevich, Academician Secy, Acad Sci USSR, 1 p

"Izv Akad Nauk SSSR, Ser Mat" Vol XII, No 1

PA 41T2

BRUYEVICH, N. G.

USSR/Physics Astronomy

Mar/Apr 1948

"Conditions for the Prize imeni Bredikhin," S. I. Vavilov, Pres, Acad Sci USSR, Academician N. G. Bruyevich, Secy, Acad Sci USSR, 1 p

"Astron Zhur" Vol XXV, No 2

This is 10,000-ruble prize offered for the best work in astronomy. Last date for submission of works is 27 Nov 1948.

PA 65T98

BRUYEVICH, N.

Bruyevich, N., "Contemporary State of the Theory of Bombing." Symposium, In Honor of Soviet Science and Technology, Voyenizdat, Ministry of Armed Forces USSR, 1949.

BRUEVICH, NIKOLAI GRIGOR'EVICH

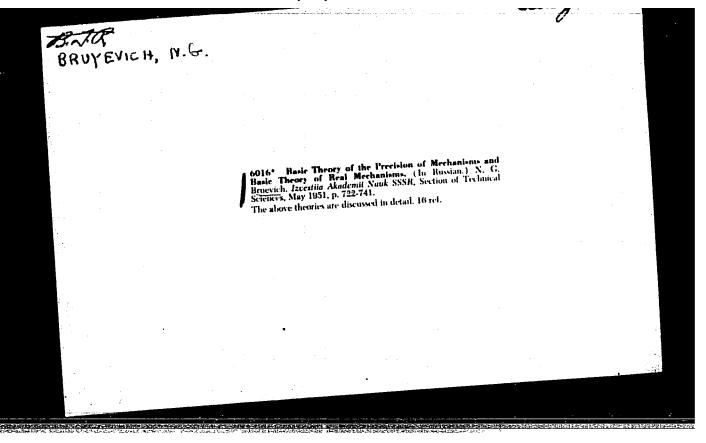
Raschet tochnosti mekhanizmov. (Vestn. Mash., 1950, no. 9, p. 5-12)

Includes bibliography.

Calculating the precision of mechanisms.

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.



- 1. ERUYERICH, N. G.
- 2. USSR (600)
- 4. Mechanical Engineering
- 7. Transactions of the Seminar of the Institute of Mechanical Engineering of the Academy of Sciences of the U.S.S.R., Department on the Precision of the Mechanisms and Machines. Trudy Sem po toch mash No 1 1952

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl

- 1. BRUYEVICH, N. G.
- 2. USSR (600)
- 4. Machinery, Kinematics of
- 7. Errors of mechanisms with kinematic pitching pairs or with flexible, winding links.
 Trudy Sem po toch mash No. 3 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

- 1. BRUYEVICH, N. G., GORODETSKIY, I. YE., Prof., STAYEV, K. P.
- 2. USSR (600)
- 4. Machinery Standards
- 7. Problems in the field of scientific research and standardization work on interchangeability, precision and technical measurements in machine building. Vest mash No. 1 1953

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl

BRUYEVICH N. G. (Acad)

Input and output of simple strutures from which complicated mechanical and electrical systems are assembled.

paper read at the Session of the Acad. Sci. USSR, on Scientific Problems of Automatic Production, 15-20 October 1956
Avtomatika i telemekhanika, No. 2 p. 182-192, 1957

9015229

BRUYEVICH, N.G., (Moskva)

Present state and future development of scientific research on precision in machinery building and instrument making. Izv. AN SSSR. Otd. tekh. nauk no.6:144-156 Je 156. (MLRA 9:9)

(Instrument industry) (Machinery--Construction)

SOV/124-58-5-4998

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 9 (USSR)

AUTHOR: Bruyevich, N.G.

TITLE: On the Input and Output of Complex Analog-computer Networks

(K voprosu o vkhodakh i vykhodakh slozhnykh ustroystv nepre-

ryvnogo deystviya)

PERIODICAL: Sessiya AN SSSR po nauchn. probl. avtomatiz. proiz-va,

1956. Vol 6. Moscow, AN SSSR, 1957, pp 93-131

ABSTRACT: A study is made of mechanical and electric computers em-

bodying the relationships set forth in a system of implicitly written equations. Concepts are expounded relative to the input and output of very simple computing elements which form part of larger computer networks. The author shows that to determine the input and output of these very simple computing elements it is necessary to analyze the total differentials of the equations describing the given relationships embodied in the computer mechanism. An investigation is made of the input and output of very simple computers which form part of more

and output of very simple computers which form part of more complex units for cases in which the latter directly compute an

Card 1/2 implicit function occurring in the lines of the simplest control

SOV/124-58-5-4998

On the Input and Output of Complex Analog-computer Networks

computers. Examples are given of analyses made of mechanical and electrical computer systems, and an account is included of experiments conducted to verify the results thereof.

I.I. Artobolevskiy

1. Mathematical computers--Performance 2. Mathematical computers--Analysis

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BRUYEVICH, N. G

28(2)

PHASE I BOOK EXPLOITATION

SOV/1394

Akademiya nauk SSSR. Institut mashinovedeniya

Voprosy sinteza i tochnosti slozhnykh ustroystv nepreryvnogo deystviya (Synthesis and Accuracy of Complex Mechanisms for Continuous Operation) Moscow, Izd-vo AN SSSR, 1958. 226 p. 3,500 copies printed.

Resp. Ed.: Bruyevich, N.G., Academician; Ed. of Publishing House: Ioffe, D.M.; Tech. Ed.: Golubeva, V.

PURPOSE: The book is intended for scientific research workers and engineers concerned with computers.

COVERAGE: This book is a collection of articles divided into two parts. The three articles of the first part deal with the synthesis and accuracy of complex mechanisms for computers, functional investigation, inputs and outputs, methods of synthesis in solving implicit functions and accuracy of the process of manufacturing parts. The second part of the book

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Synthesis and Accuracy (Cont.)

sov/1394

commains seven articles dealing with the accuracy of some particularly simple mechanisms: caus, gears, etc., and their design for accuracy. The articles are based on experimental material which shows that the theoretical premises and conclusions were confirmed by prantical tests. The book is based on scientific work parried out by the authors in 1955-56. The authors thank the following for reviewing the book: N.Ye. Kobrinskiy, N.I.Pchel'nikov, and A.A. Fel'dbaum, Professors and Doctors of Technical Sciences; B.G. Dostupov, Decent, Doctor of Technical Sciences; T.A. Golinkevich,
A.I. Ivantsov, Yu.V. Lubatov, and I.F. Seregin, Docents,
Candidates of Technical Sciences; B.M. Tseytlin, Candidate of Technical Sciences. The author also thanks Professor, Doctor of Technical Sciences G.G. Baranov for assistance on problems of simple mechanisms, and N.P. Ivanzikov for working on the second part of the book. There are 87 references, all Soviet.

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Card 4/4

BRUYEVICH, N. G.

N. G. Bruyevich, "The Present State of Accuracy in Machine and Apparatus Construction."

paper presented at the 2nd All-Union Conf. on Fundamental Problems in the Theory of Machines and Mechanisms, Moscow, USSR, 24-28 Merch 1978.

sov/24-59-4-8/33

Bruyevich, N.G. (Moscow) AUTHOR:

Reliability and Accuracy of Automatic Production

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1959, Nr 4, pp 59-78 (USSR)

ABSTRACT: The first part of the review is a long general discussion of what is meant by reliability in various instances:

complete absence of failure during use (aircraft engines); fail-free operation for a specified number of hours, followed by scrapping upon failure (most electronic components, some bearings, gears, etc.); and repair and overhaul after a specified number of hours without failure (crankshafts, grinding wheels, etc). Another aspect of mliability, is the probable time required to repair a faulty instrument. The rest of the paper reviews briefly the criteria that have been applied to the various forms of accuracy and reliability, which form the subject of the latter 14 references (the first two references relate to fuller treatments of the subject by the author).

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خاشي ساي

BRUYEVICH, N.G. SOV/179-59-5-41/41 None given AUTHOR: Third All-Union United Conference on the Automation of Manufacturing Processes in Machine - Building and TITLE: Automatic Electrical Drives in Industry PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1959, Nr 5, p 184 (USSR) The Conference was called during 12-16th May 1959, in ABSTRACT: Moscow by the Soviet Academy of Sciences, the USSR State Scientific-Planning Commission (Gosplan), the State Technical Committee (Gosudarstvennyy nauchno-tekhnicheskiy komitet), the State Committee for Automation and Machine-(Gosudarstvennyy komitet po avtomatizatsii i Building ' mashinostroyeniyu) and the USSR National Committee for Automatic Control (Natsional nyy komitet SSSR po avtomaticheskomu upravleniyu). 800 Delegates took part. Academician Bardin, I.P. in his opening address noted the official policy of a broad adoption of automation in all fields of the National Economy as the decisive condition of further technical progress. Academician Dikushin, V.I. read a paper on the problems of the development of Card 1/4

was part on their

SOV/179-59-5-41/41

JANES ME Third All-Union United Conference on the Automation of Manufacturing Processes in Machine - Building and Automatic Electrical Drives in Industry

> automation in machine - building in the 1959-1965 period. The greatest significance is attributed to the complete automation of processes with a large labour content and heavy repetitive work and to the automation of production. Mechanisation and automation must spread into new fields of production. The integrated development of powerful machine - building it possible to increase the productivity of labour continuously and without limit. Advanced production processes must be more rapidly adopted. Renewal of production plant must be carried out by its replacement with better plant and more automatic plant and by economically beneficial modernisation. Special attention was paid by the lecturer to the press working of metals. Research into deformation processes, the stressed state and strength in the stamping of hot and cold metals, especially metals of low ductility and heat resistant metals must be accelerated. Concerning the problem of the continuity and automation of metal cutting

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Third All-Union United Conference on the Automation of Manufacturing in Industry

SOV/179-59-5-41/41

Processes in : Machine - Building and Automatic Electrical Drives

processes, the lecturer pointed out that the creation of improved machine tools for metal cutting will demand more research into the stressed state, the deformation, and the forces in metal cutting, into the increased life of cutting tools, the development of methods of precise forming and improved accuracy of cutting, the development of automation schemes and automation equipment capable of rapid re-setting or re-tooling when changing the design of the components. Special attention was given by the lecturer to the drive and control of machine tools. The scientific and technical level of developments in the field of drive and control achieved in the USSR will make it possible to solve complex problems of the automation of the entire operating cycle of a machine tool. However, the lag in the manufacture of drive components and control components prevent the wider development of automation. Academician Bruyevich, N.G. read a paper on the safety and accuracy in automatic production. Borisenko, I.I., engineer, gave a paper on the manufacture of electrical

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Third All-Union United Conference on the Automation of Manufacturing Processes in Machine - Building and Automatic Electrical Drives in Industry

equipment, instruments and electrical means of automation during the current 7-year plan.W Solodovnikov, V.V., Doctor of technical sciences, presented a paper on the scientific foundations of integrated automation. Academician Strumilin, S.G. lectured on the economics of automation in industry. About 150 papers were devoted to the automation of manufacturing processes in machine . They were divided into the following sections: the automation of foundry processes, of press working processes, of welding processes, of hard facing processes, of assembly processes, of inspection processes and the section on drives and controls in machine . The conference also heard papers devoted to modern problems of automatically controlled electrical drives Reported in Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, seriya "Energetika i avtomatika," 1959, Nr 4).

Card 4/4

BRUYEVICH, N.G.

AUTHOR: None given

SOV/122-59-6-20/27

TITLE:

Third All-Union Conference on Automation

PERIODICAL: Vestnik mashinostroyeniya, 1959, Nr 6, pp 71-73 (USSR)

ABSTRACT: The third national conference on the automation of production processes in mechanical engineering and automatically controlled electric drives in industry, held in Moscow from May 12-16, 1959, is reported. Over 1 100 delegates from more than 66 towns of the USSR took part in the conference. 805 people assisted in the sessions dealing with the development of automation in mechanical engineering. The conference was opened by A.A. Blagonravov, Academician, Academic Secretary of the Section of Engineering Sciences of the USSR Academy of Sciences. Academician I.P. Bardin, Vice-president of the Ac.Sc.USSR, noted in his introductory speech the importance of the development of automation and dealt with the basic conditions determining successful automation of production processes. Academician V.I. Dikushin presented a paper entitled "Problems of Automatic Control in Mechanical Engineering" in which he stated that mechanical engineering had the task of providing Cardl/9 all branches of the national economy with improved machines.

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He emphasised the need for resolutely replacing obsolete with modern machines. In order to increase the production of machines and improve their quality, it was necessary to carry out the overall automation of processes in all production stages. Dikushin indicated the concrete trends in the development of automatic control and dwelt on the problems of the development of drive and control in their interaction with production machines. Chilikin, M.G., Doctor of Technical Sciences, in his paper entitled "Present-day Problems of the Automatic Electric Drive" quoted the following figures on the relationship between power available per worker and productivity of labour. Taking 1928 in Soviet industry as the reference year, the power available per worker rose to 335, 490 and 685% in 1940, 1950 and 1955, respectively. In the same years, productivities were 341, 266 and 627%. Thus, questions associated with the improvement of the electrical drive assume great importance. Alongside the primary purpose of the electrical drive - to convert electrical into mechanical energy (rotating shaft power), research must be

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Third All-Union Conference on Automation SOV/122-59-6-20/27

directed towards the creation of industrial electrical drives with translational, pulsating and other motions changing according to any law. In a paper entitled "The Reliability and Accuracy of Automatic Production" Academician N.G. Bruyevich established the relationship between the reliability of machine tools and the accuracy of components made on them. He pointed out the case without physical standstill of the machine, when it begins to produce inaccurately. The serviceability of the machine has been disrupted though it is still formally working. To increase the reliability of machines, the possible decrease in their accuracy must be taken into account already in design. The reliability of the components must be ensured and statistical information collected on the reliability of machines in different conditions. Academician S.G. Strumilin in a paper entitled "On the Economics of Automation in Mechanical Engineering" gave a historical analysis of the development of the automation of production processes and defined the social and economic differences in its effect under the conditions of capitalist and socialist societies. N.I. Borisenko, in a

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paper entitled "Production of Electrical Equipment, Instruments and Electrical Automatic Control Gear" acquainted the audience with the increase in the production in these fields planned for the period 1958-1965. In his paper entitled "On the Scientific Foundations of Overall Automation", Doctor of Technical Sciences V.V. Solodovnikov, denoting the successive stages of automation, defined overall automation as the most general and highest form, in which not only the function of processing the control signals but also the function of evaluating them devolves upon the means of automatic control (i.e. the task of the control of a process which is automated throughout, should be solved by the means of computer engineering). The main difficulty in the fulfilment of this task is the complexity of obtaining a mathematical description of the production process. Another difficulty is the compiling of equations which will provide the link between economics and engineering. The speaker cited variants of the possible mathematical solution of the task

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of automatic control of processes which are automated throughout. At the Section for the Automation of Foundry Production Processes, papers were presented which reflected the development of the theory of foundry processes, the overall automation in the foundries and the development of new processes. At the Section for Automation of Press and Forging Processes, a paper was read on the prospects of the specialisation of the production of forgings in the USSR; several papers dealt with new automatic equipment, with the development of continuous processes of making forgings by overall automation on the basis of press working processes and the conditions for combining the processes of heat treatment and press working. At the Section for the Automation of Welding Processes, papers were presented dealing with new welding methods, welding metals by means of ultrasonics and the processes of cold welding. Several papers dealt with the experience in the automation of different branches of mechanical engineering and reported on new automatic control equipment. At the Section for the Automation of the Heat Treatment Processes, papers were presented on the theory of heat treatment

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processes, on experience in the automation of heat treatment processes and methods of controlling them. At the Section for the Automation of Machining Processes, 23 papers were presented, which dealt with the development of automation in batch production of machines and with the standardisation linked with it; with the theory of processes, the measures for expanding production of automation equipment, new automatic devices and new model designs for pilot automatic factories. The Section on Automation of Assembly Processes had been established for the first time and, for this reason, the interest displayed in the work of this section was not fully satisfied. The papers and reports were, in the main, restricted to outlines of the experience of individual factories. In the Section on the Automation of Inspection Operations, over 20 mpers were presented. They dealt with the theory of and new forms of equipment for the automation of inspection operations, descriptions of new methods of automating inspection operations. Several papers quoted experience in automation.

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At the Section on Drives and Controls of Engineering Production Machines, theoretical papers were presented on the principles of the design of systems with maximising regulating properties, on the standardisation of signals in information circuits, etc., as well as papers on new equipment and methods for controlling machine tools, on the electrical and hydraulic drives in mechanical engineering, on new systems in pneumatic control devices, and on several problems relating to mechanical transmissions. At the final full session a statement on the tasks of the State Committee on Automation and Mechanical Engineering was made by USSR Minister A.I. Kostousov, Chairman of this committee, who defined the importance of automation and its social significance. The principal task - increasing labour productivity - is being fulfilled by pursuing a specific policy in the design of machines and raising the technical level of production processes. The State Committee for Automation and Mechanical Engineering has been set up for the purpose of co-ordinating and organising the work of automation and for accelerating the development of mechanical engineering. An extremely

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mixed stock of manufacturing machines is in service today. Newly produced machines are also extremely varied. Altogether over 125 000 different types of machines, instruments, apparatus, etc, are being produced in the USSR. The primary task of the reconstituted State Committee is the creation of a range of machines with as small a number of types as possible, and most appropriate to the scale and conditions of socialist production. All machines must be so designed that they could be built into automatic production lines: Problems of machine design, the speaker stressed, must be solved with an eye to overall applicability for all branches of mechanical engineering. Kostousov then dealt with questions relating to the general application and utilisation of industrial experience in automation. A.Ye. Vyatkin, Chairman of the Committee on Standards, Measures and Measuring Instruments under the Council of Ministers of the USSR, told the conference about steps taken in the field of standardising components in mechanical engineering.

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Yu. Ye. Maksarev, Chairman of the State Scientific Research Committee of the Council of Ministers of the USSR, noted that the work of the conference and its sections will assist the automation of production processes in mechanical engineering.

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25760 s/024/61/000/001/014/014 E035/E117

AUTHOR:

Bruyevich, N.G.

(Moscow)

TITLE:

An Investigation Into the Reliability and Accuracy of Electronic Elements in Machines and Instruments

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1961, No.1, pp. 185-200

This is a revised version of a paper presented at the All-Union Conference on Computer Mathematics and Computer

Engineering, November to December, 1959.
The multitude of possible causes of failure of electronic devices can be grouped under two main headings (a) catastrophic breakdowns, and b) the cumulative effects of small errors. The overall reliability of a device is given by (1)

P = P_{I.II}P_{III}

where PI II is the reliability when only the possibility of catastrophic breakdowns is considered, and PIII is the reliability when the possibility of catastrophic breakdowns is ignored. The expression is valid if the two classes of faults are Card 1/7

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An Investigation Into the Reliability and Accuracy of Electronic Elements in Machines and Instruments

independent. In Section 1 of the paper the choice of component independent. In Section 1 of the paper the choice of component tolerances to achieve a given accuracy is dealt with. One tolerances to achieve a given accuracy is dealt with. One tolerances to achieve a given accuracy is dealt with. One tolerances is analysed (the calculations were carried out by particular case is analysed (the calculations were carried out by particular case is analysed (the calculations were carried out by particular case is analysed (the calculations were carried out by particular case is analysed (the calculations were carried out by particular samplifically in Fig. 1.

A. I. Il'in), namely the integrator shown diagrammatically in Fig. 1.

Errors can be produced by small changes in the values of R, C, Errors can be produced by small changes in the values of R, C, errors can be produced by small changes in the values of R, C, errors can be produced by small changes in the values of R, C, errors can be produced by small changes in the values of R, C, errors can be produced by small changes in the values of R, C, errors can be produced by small changes in the values of R, C, errors can be produced by small changes in the values of R, C, errors can be produced by small changes in the values of R, C, errors can be produced by small changes in the values of R, C, errors can be produced by small changes in the values of R, C, errors can be produced by small changes in the values of R, C, errors can be produced by small changes in the values of R, C, errors can be produced by small changes in the values of R, C, errors can be produced by small changes in the values of R, C, errors can be produced by small changes in the values of R, C, errors can be produced by small changes in the values of R, errors can be expressed as:

$$\Delta U_{\text{BMX}} = \frac{P_{a}}{C_{0}} \Delta A + \frac{P_{b}}{R_{0}^{2} C_{0}} \Delta R + \frac{P_{b}}{R_{0} C_{0}^{2}} \Delta C - \frac{(P_{a} + P_{b})}{R_{0} C_{0}} \frac{1}{K} + \frac{1}{R_{0} C_{0}} \int_{0}^{t} \epsilon_{0p} d\delta + \epsilon_{0p}$$

$$P_{a} = (P_{a})^{0} - (U_{\text{BMX}})_{0}^{0} t + \frac{1}{R_{0} C_{0}} \int_{0}^{t} \left[\int_{0}^{\tau} U_{\text{BX}} d\tau \right] d\tau, \qquad (P_{a})^{0} = \left(\frac{\partial U_{\text{BMX}}}{\partial a} \right)_{0}$$

$$P_{b} = (P_{b})^{0} + \int_{0}^{t} U_{\text{BX}} d\tau, \qquad (P_{b})^{0} = \left(\frac{\partial U_{\text{BMX}}}{\partial b} \right)_{0} \qquad (a)$$

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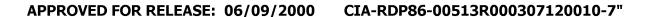
An Investigation Into the Reliability and Accuracy of Electronic Elements in Machines and Instruments

is the input voltage; UBMX is the output voltage; a and b are two high-tension voltages applied to the amplifier. A suffix of 0 indicates an ideal value, and an index of 0 indicates an initial value. The above formulae give a linear approximation to the error produced by zero drift, which is represented in the main formula by the last two terms. formulae show that the error in the output voltage is a function of the input voltage. The formula for output error can be used to derive an expression which states the probability that the output voltage will be within a given figure of the correct value, as a function of time. This probability is also a function of the type of input waveform, and tends to rise with rising frequency. Fig. 3 shows the probability that the output voltage will be within 0.5 volts of its correct value for three different input voltages. The reliability of the integrator with regard to catastrophic failure can be found by multiplying the reliabilities of each of the separate components in it. Card 3/7

25860 S/024/61/000/001/014/014 E035/E117

An Investigation Into the Reliability and Accuracy of Electronic Elements in Machines and Instruments

In Section 2, 'duplication' of components is dealt with, i.e. the effect of replacing single components by simple networks which have the same electrical characteristics is considered. Examples of such networks are shown in Figs. 6 and 7. The assumption can be made that each component is liable either to a short circuit (the probability of this not occurring in a given period of time, or the "reliability", being denoted P'), or to an open circuit (the reliability of the component in this respect being called The networks in Figs. 6 and 7 can be analysed by considering all possible combinations of these faults occurring, and probabilities for each of the resultant states derived in It is found that the terms of the reliabilities P' and P". likelihood that such a group of components retains its design value is less than for a single component, but the probability of its retaining some finite value is more. This means that the use of such groups in analogue devices which depend on their operation on precise values of components would only lower the reliability Card 4/7



25760 \$/024/61/000/001/014/014 E035/E117

An Investigation Into the Reliability and Accuracy of Electronic Elements in Machines and Instruments

of these devices; but in digital computing devices where the actual values of components are not critical, the use of component groups might well improve the overall reliability. This hypothesis was tested experimentally, using two flip-flops. One was built with standard components, and the other using electrically similar component groups. In both flip-flops, each component was systematically short-circuited, and open-circuited, and the effect noted. Nearly every one of these operations prevented the conventional flip-flop from working; but the flip-flop with component groups continued to operate in 64% of the cases, at 150 kc/s, and about 50% of the cases at 300 kc/s. The author concludes that the use of component groups in digital devices leads to an increase in their reliability. There are 12 figures, 8 tables and 7 Soviet references.

SUBMITTED: July 5, 1960

Card 5/7

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27654

S/024/61/000/004/012/025 E140/E135

9.7100

Bruyevich, N.G. (Moscow)

AUTHOR:

The synthesis of digital computer control units

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1961, No.4, pp.93-106

The author explains his system for the design of TEXT: digital computer control units by means of a particular example the control circuits for a single-address, semisynchronous, parallel machine with fixed point and 14 operations; semisynchronous refers to the mode of operation in which individual steps of a given instruction are of identical durations and clocked, while the duration of the instruction depends on the number of steps. The first step is to assemble the list of operations. The second step is to break down the individual operations into a sequence of steps, making as many steps common to each operation or group of operations as possible. Steps include memory exchanges, computing addresses of next instructions, handing over control to the arithmetic control unit, etc. The article does not consider the design of the latter. After this the logical equations for Card 1/2

27654 The synthesis of digital computer ... E140/E135

realising the control unit are found. It is assumed that the circuit is to be realised by the following elements: elementary logical operators of sum and product, inverters, registers, counters, switches, flip-flops. No considerations are given on minimal solutions. There are 4 figures, 2 tables and 4 references: 3 Soviet and the

following English language reference:

Ref. 4: A.W. Burks, J.M. Copi. The logical design of an idealized general purpose computer. J. Franklin Inst., 1956, V.261, No. 3, 4.

SUBMITTED: April 28, 1961

Card 2/2

KOLMOGOROV, A.N., akademik; BRUYEVICH, N.G., akademik

Discussion of present-day problems in cybernetics (to be continued). Tekh.mol. 29 no.11:30-33 '61. (MIRA 14:11) (Cybernetics)

BRUYEVICH, N.G.

Automation of mental work. Tekh. mol. 29 no.12:22-27 '61. (MIRA 15:1) (Cybernetics)

SORIN. Ya.; BRUYEVICH, N.G., akademik; GNEDENKO, B.V., akad.; SIFOROV, V.I.; SOTSKOV, B.S.

> Precise, strong and lasting. Znan.-sila 37 no.5:10-16 My 162. (MIRA 15:9)

1. Predsedatel komiteta Vsesoyuznogo soveta nauchno-tekhnicheskikh obshchestv po nadezhnosti i kontrolyu kachestva (for Sorin). 2. Akademiya nauk Ukrainskoy SSR (for Gnedenko). 3. Chleny korrespondent AN SSSR (for Siforov, Sotskov).

(Quality control)

BRUYEVICH, N.G. (Moskva)

Elements of the synthesis of the control devices of electronic digital computers. Izv. AN SSSR. Tekh. kib. no.4:26-43
J1-Ag 163. (MIRA 16:11)

BRUYEVICH, N.G.; SERGEYEV, V.I. (MOSCOW)

"On the problem of accuracy in the reliability theory"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

BERG, A.I., akademik, red.; BRUYEVICH, N.G., akademik, red.; CHEDENKO, B.V., akademik, red.; SHAMSHUR, V.I., red.

[Cybernetics in the service of communism] Kibernetiku na sluzhbu kommunizmu. Moskva, Energiia. Vol.2. [Theory of reliability and the queueing theory] Teoriia madezhnosti i teoriia massovogo obsluzhivaniia; sbornik statei. 1964.. 367 p. (MIRA 17:11)

1. Akademiya nauk SSSR (for Berg, Bruyevich, Gnedenko).

BOOK EXPLOITATION

Bruyevich, N. G.; Dostupov, B. G.

Principles in the theory of computers (Osnovy* teorii schetno-reshayushchikh ustroystv), Moscow, "Sovetskoye radio", 1964, 817 p. illus., biblio. Errata slip inserted. 15,500 copies printed.

TOPIC TAGS: automation, computer engineering, modeling computer, digital computer, combined computer

PURPOSE AND COVERAGE: The book examines the fundamentals of the theory of accuracy and reliability, principles of construction, and the operation of modeling, digital, and combined computers. Circuitry analysis is done considering the most important requirements of specialized computer assemblies. The book is intended for researchers and engineers working in computer engineering.

TABLE OF CONTENTS [abridged]:

Foreword -- 3 Introduction -- 5 Part I. Fundamentals of the theory of accuracy and reliability of computers Card 1/02

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Ch. I. Fundamentals of the theory of the accuracy of computers -- 19
Ch. II. Reliability of computers and mathematical machines -- 59
Part II. Modeling computers
Ch. III. Reproduction of values in modeling computers and scale changes -- 81
Ch. IV. Assemblies realizing linear functions with several arguments - 132
Ch. V. Reproduction of arbitrary nonlinear functions -- 15h Ch. VI. Multiplication and division assemblies -- 207 Ch. VII. Integrating and differentiating assemblies -- 233 Part III. Digital electronic computers
Ch. VIII. Classification of digital computers -- 275
Ch. IX. Mathematical principles of electronic computers -- 279
Ch. X. Computers that perform elementary logical functions -- 380
Ch. XI. Computers that perform certain complex logical functions -- 427 Ch. XII. Memory assemblies -- 489 Ch. XIII. Summators (SM) -- 554
Ch. XIV. Arithmetic assemblies -- 615
Ch. XV. Assemblies for control of digital mathematical machines -- 685
Part IV. Combined computers
Ch. XVI. Principles of transformer construction -- 731
Ch. XVII. Combined Computers --- 764
 Card 2/89
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s/0179/64/000/002/0078/0081

ACCESSION NR: AP4035061

AUTHOR: Brivovich, N.G. (Moscow); Sergeyev, V. I. (Moscow)

TITIE: Problem of precision in reliability theory

·····

SOURCE: AN SSSR. Izvestiya... Mekhanika i mashinostroyeniye, no. 2, 1964, 78-81

TOPIC TAGS: precision, reliability, machine, reliability theory, machine reliability

ABSTRACT: The reliability of a machine is defined as its ability to operate and perform its intended purposes for a given number of hours. Lack of reliability in a machine of device can occur as a result of one or several rough primary errors due to breakdown in parts or from the concurrent effect of several slight primary errors. Depending on the purpose of the machine, the error in the output coordinant can be expressed as an error of position or displacement or an error in velocity or acceleration. It is very important in solving the second problem in the theory of reliability(i.e. that the output signals lie within given tolerances) to study the precision with

ACCESSION NR: AP4035061		*.* *.* *		
which links of the mechanism were theory of precision for obtaining coordinate as a function of the pr for a mechanism with one guided li illustrated by an example of a thr	the error in the output s rimary errors through use ink. The results of the a	signal or output of the mechanism		
ASSOCIATION: none	es the screm mechanitym.			
SUBMITTED: 2hDec63	DATE ACQ: 20May64	ENCL: 00	* ************************************	
SUB CODE: IE	NO REF SOV: 005	OTHER: OOO		
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RUYEVICH, N.G., akademik, otv. red.; AKSEL'ROD, P.S., red.

[Precision and reliability of automatically controlled manufacture of machinery] O tochnosti i nadezhnosti v avtomatiz rovannom mashinostroenii. Moskva, Nauka, 1965. 137 p. (MIRA 18:4)

1. Gosudarstvennyy nauchno-issledovatel skiy institut mashinovedeniya.

BRUYEVICH, N.G. (Moskva); SERGEYEV, V.I. (Moskva)

Nonlinear theory of the precision of mechanisms with lower kinematic pairs. Ft.l. Mashinovedenie no.2:3-12 65. (MIRA 18:8)

BRUYEVICH, N.G. (Moskva); SERGEYEV, V.I. (Moskva)

Nonlinear theory of the precision of mechanisms with lower kinematic pairs. Pt.2. Mashinovedenie no.3:3-11 '65. (MIRA 18:6)

BRUYEVIGH, N.G. (Moskva)

1 roblems of the automation of brainwork in the manufacture
of machinery. Mashinovedenie.no.5:3-13 *65. (MIRA 18:9)

BRUYEVICH, N.G.; SERGEYEV, V.I.

Some general problems of the precision and reliability of units. Teor.mash.i mekh. no.105/106:135-156 65.

(MIRA 18:4)

L 32765-66 JT

ACC NR: AP6010123

SOURCE CODE: UR/0122/66/000/003/0003/0008

AUTHOR: Bruyevich, N. G. (Academician)

13

ORG: None

TITLE: Essential problems in the automation of mental work in machine building

SOURCE: Vestnik mashinostroyeniya, no. 3, 1966, 3-8

TOPIC TAGS: computer application, industrial automation, cybernetics

ABSTRACT: The author surveys, on the basis of 11 Soviet and Western references, the present status of automation of mental work in machine building. The author discusses separately 1) the numerical calculation of mathematical problems during scientific studies and during machine design; 2) the search for optimum solutions and the development of optimum versions of new machines, equipment, and technological processes; 3) the development of new methods of scientific investigation based on computer technology; 4) the modeling of processes on digital computers using the Monte Carlo method; 5) logical analysis and synthesis of control devices; and 6) the production of drawings of parts and units using computer technology.

SUB CODE: 09, 13 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 005

BRUYEVICH, N.I.

Plan of the Geodetic Literature Publishing House for 1956-57.

Geod. i kart. no.9:74-78 N *56.

(Geodesy)

BAGRATUNI, G.V.; BOL'SHAKOV, N.N.; BRUYEVICH, N.I.; BUBNOV, I.A.;
GRAMENITSKIY, D.S.; IZOTOV, A.A.; MAZMISHVILI, A.I.; MODRINSKIY,
N.I.; SALYAYEV, S.A.; FLORENT'YEV, V.B.; FOMIN, P.M.

Mikolai Fedorovich Bulaevskii; obituary. Izv.vys.ucheb.zav.; geod.i aerof. no.6:121-122 '61. (MIRA 15:3) (Bulaevskii, Nikolai Fedorovich, 1882-1961)

KHRENOV, Leonid Sergeyevich, prof.; Prinimal uchastiye ZAPRUDNOV, B.D., inzh.; KAMENEV, N.P., dots., ofitsial'nyy retsenzent; SHAROV, I.F., ofitsial'nyy retsenzent; BRUYEVICH, N.I., nauchnyy red.; LYAKHOVICH, Ye.A., red.; SHIBKOVA, R.Ye., tekhn. red.

[Geodesy] Geodeziia. Izd.2. Moskva, Goslesbumizdat, 1962. (MIRA 16:6)

1. Vsesoyuznyy zaochnyy lesotekhnicheskiy institut (for Kamenev). 2. Khrenovskiy lesnoy tekhnikum (for Sharov). (Geodesy)

Checking contact angles of radial-supporting bearings. Izm.tekh.
no.3:2-4 Mr '60. (MIRA 13:6)
(Bearings (Machinery)--Testing)

BRUYEVICH, N.V.; BREYTMAN, Z.M.; REZNIKOV, Yu.M.; MIKHAYLOV, N.V., Ingh., retsenzent; KURATTSEV, L.Ye., red.; GORDEYEVA, L.P., tekhn. red.

[Technical measurements in the bearing industry] Tekhnicheskie izmereniia v podshipnikovoi promyshlennosti. Moskva, Mashgiz, 1963. 198 p.

BRUYEVICH, P.N., insh.

Method for approximate determination of inclination angles of gently sloping terrains from near-vertical aerial photographs. Izv. vys. ucheb. zav.; geod. i aerof. no.6:109-112 '60. (MIRA 14:5)

1. Stereofotogrammetricheskaya laboratoriya Instituta geografii AN SSSR.

(Aerial photogrammetry)

L 01932-67 EWT(1) GW

ACC NR: AP6028220

SOURCE CODE: UR/0154/66/000/001/0085/0088

AUTHOR: Bruyevich, P. N.

24

ORG: Moscow Institute of Engineers of Geodesy, Aerial Photography, and Cartography (Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii)

TITLE: Certain calculations of the parameters of ground stereophotogrammetric survey for compiling frontal plans of steep areas

SOURCE: IVUZ. Geodeziya i aerofotos"yemka, no. 1, 1966, 85-88

(A)

TOPIC TAGS: stereoscopic photography, photogrammetry, geodetic survey

ABSTRACT: Experience in ground stereophotogrammetric survey to compile frontal plans of steep areas, i.e., plans projected on a vertical plane, has shown that the magnitudes of the angles between the direction of the observation base and the plane of projection parallel to the trend of the steep area rarely exceeds 25°. With an increase in the angle of deviation of the optical axis from the normal to the base the errors of determining the spatial coordinates of the points of the steep decline increase appreciably, therefore it is necessary to avoid angles of deviation of more than 25°. In the formulas derived in this article the distance from the

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ACC NR: AP6028220

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surveying points to the photographed steep decline are taken to be maximal for the following considerations. The measurement conditions will be worse for points of a steep decline most remote from the photographing station, in other words the angle of the photogrammetric intersection will be smallest. For other points the angles of intersection will be larger in magnitude. Photographing of the steep decline in all the examined conditions was done on photographic plates, the planes of which at the moment of exposure were parallel to the trend of the photographed area. Therefore, the fluctuations of differences within the stereoscopic pair will be relatively small and the image of the steep decline on the photographs will not be divided into near and far plans. Consequently there is no danger of obtaining overlappings of less than 50% at points with smallest distances. Other relationships obtained in this work permit a thorough execution of preliminary reconnaissance during field work on ground stereophotogrammetric surveying to compile frontal plans, which increases the effectiveness of field operations. Orig. art. has: 11 formulas and 2 figures.

SUB CODE: 08 SUBM DATE: 040bt64

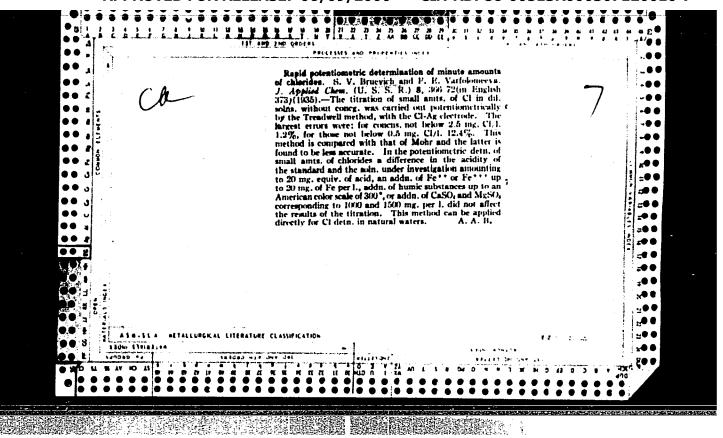
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Card 2/2

BRUYEVICH, S. V.

The Hydro-chemistry of the Kaspian Sea, 1934

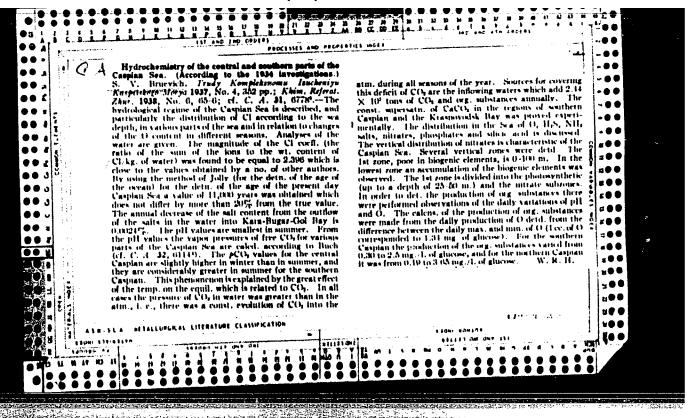
201 AT T 166-52, Gormany, 4 February 1952.

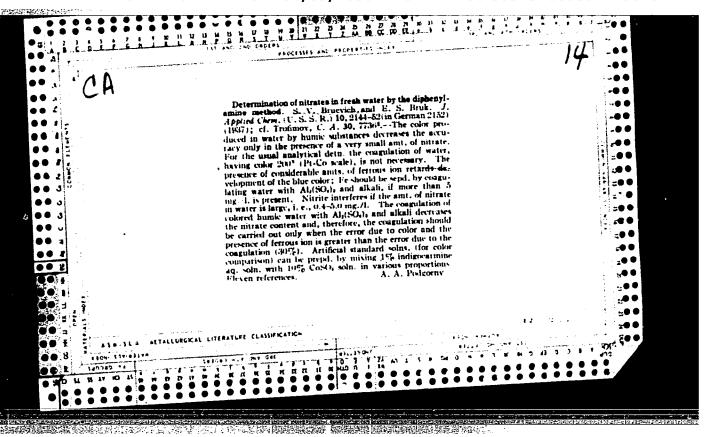


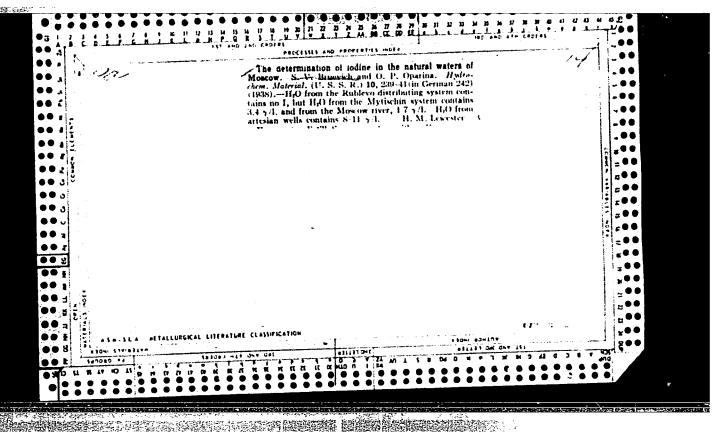
BRUYEVICH, S. V.

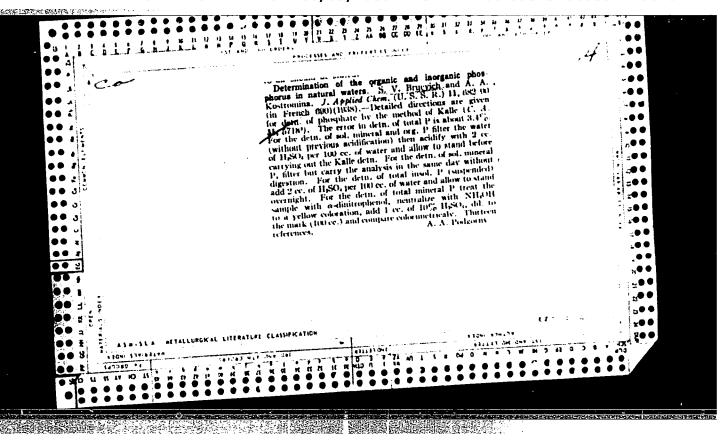
Estimation of the Orgainc Matter Production in the Caspian Sea, 1936.

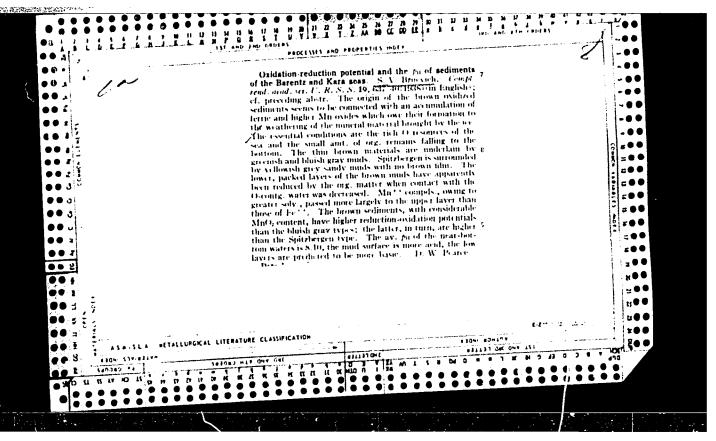
90; ATT 166-52; Cormany; 4 February 1952.

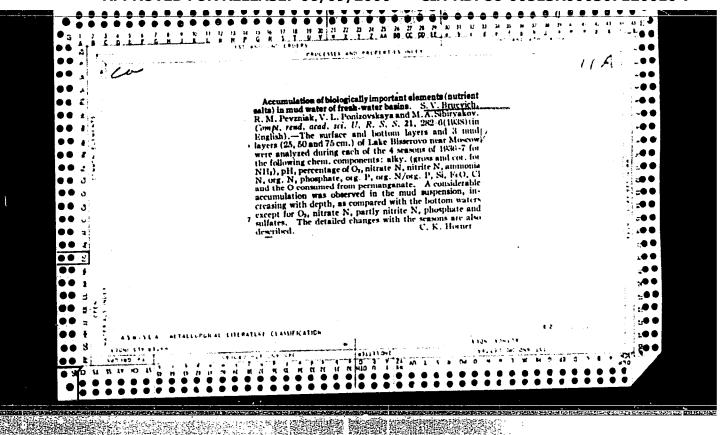


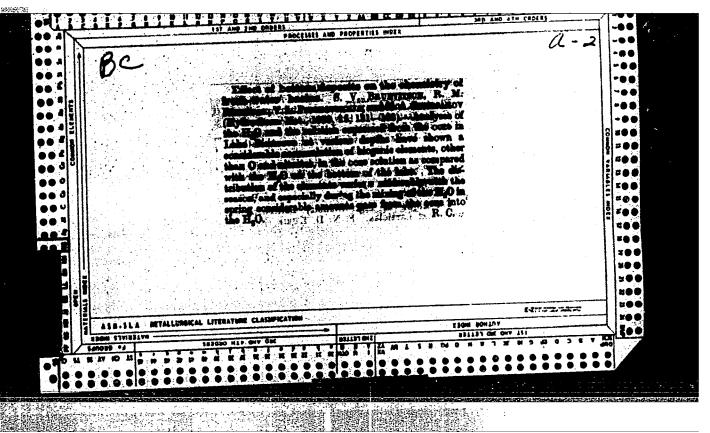


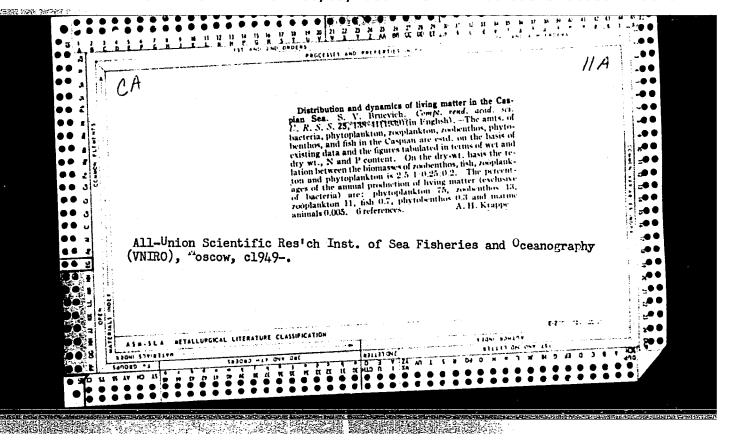


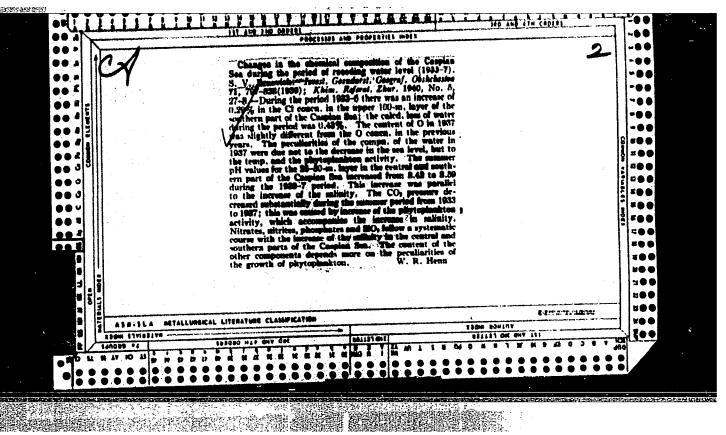


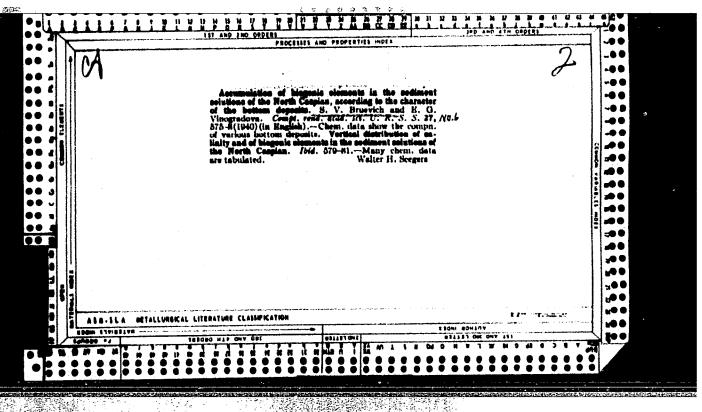












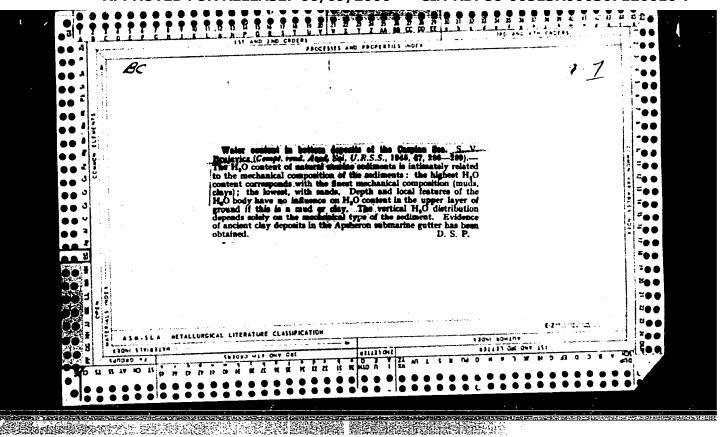
BRUYEVICH, S. V. and ANICHKOVA, N. I.

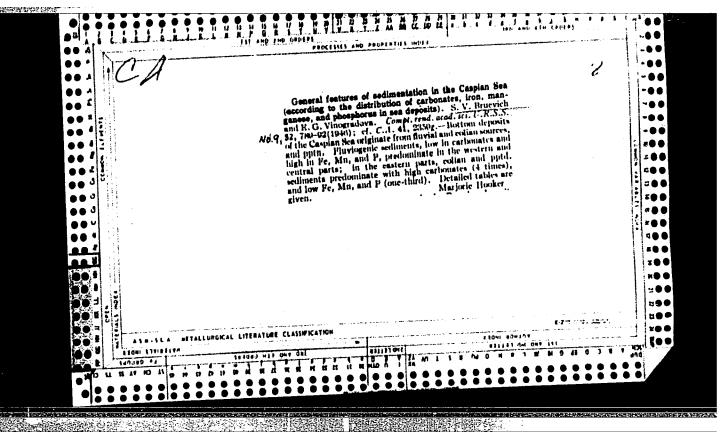
"The Chemistry of River Discharge into the Caspian Sea," Trudy po Kompl Izuch Kasp Morya, No 14, Izd AN SSSR, 1941.

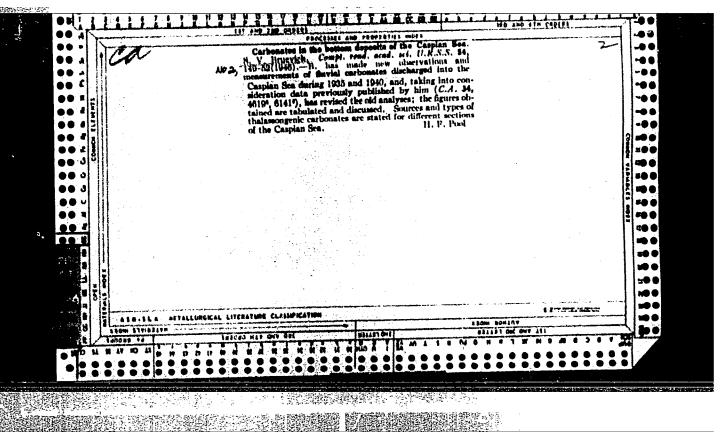
BRUYEVICH, S.

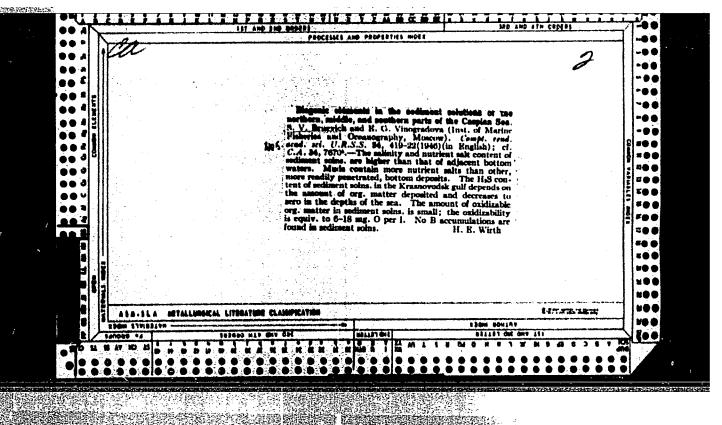
"Distribution of Matter anong the Several Groups of Organisms in the Caspian Sea.

Elements of the Chemical Balance of the Caspian Sea," Tr. po kompleksn. izuch, Kaspivskogo morya / Papers on the Combined Study of the CAspian Sea by Workers in Various Specialties/, No 14, p 76, 1941.









BRUYEVICH, S. V.

PA 54T57

USSR/Hydrology Oceanography 1947

"The Chemical Composition of Sediment Solutions of the Caspian Sea: Part I, The Northern Caspian (From the Data of 1939)," S. V. Bruyevich, Inst Marine Fisheries and Oceanography, Moscow; Ye. G. Vinogradova, Inst Oceanology, Acad Sci USSR, 19 pp

"Gidrokhim Materialy" Vol XIII

Describes and explains considerable accumulation of biogenic elements in sediment solutions of Morthern Caspian. Discusses salinity and vertical distribution of chlorine in sediment solutions, and difference between sediment solutions of bay and those of

BRUYECTCH, S. V.

PA 54T58

USER/Hydrology Oceanography

1947

"The Chemical Composition of Sediment Solutions of the Caspian Sea: Part II, Northern, Middle, and Southern Parts of the Caspian Sea," S. V. Bruyevich, Inst Marine Fisheries and Oceanography, Moscow; Ye. G. Vinogradova, Inst Oceanology, Acad Sci USSR, Moscow, 39 pp

"Gidrokhim Materialy" Vol XIII

Describes determination of chemical composition of sediment solutions and physical and chemical composition of natural bottom deposits, i.e., humidity, specific gravity, carbonate content, chlorinity, etc.

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BENETYTCH, J. V.

21494 BRUYEVICH, S. V.; i VINCGRADOVA, Ye. G.

Osadkoobrazovaniye v Kaspiyskom more (po raspredeleniyu karbonatov, zholeza, margantsa i tosfora v morskikh osadkakh). Trudy Vtorogo Vsesoyuz. geogr. s"yezda. T. F.F., 1943, s. 297 - 304, s. kart.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Voskva, 1949

BRUYEVICH, S. V.

"The Elemental Composition of the Water of the World Ocean", Works of the Institute of Oceanology, Academy of Sciences USSR, Vol. 2, 1948.

BRUEVICH, S.V. 25435

O Vychislenii Istinnoy Khlornosti I Plotnosti Vody Kaspiyskogo, Morya. Trudy In-Ta Okeanologii (Akad. Nauk SSSR), T.11, 1948, s. 26-34 - Bibliogr: 8 Nazv.

SO: LETOPIS NO. 30, 1948

- 1. BRUYEVICH, S. V., VINOGRADOVA, Ye. G.
- 2. USSR (600)

"Sedimentary Precipitation in the Caspian Sea (according to Distribution of Carbonates, Iron, Manganese, and Phosphorus in Sea Sedimentation)."
Trudy vtorogo vsesoyuznego geograficheskogo s'yezda, Volume II, 1948 (207-304).

9. Meteorologiya i Gidrologiya, No. 3, 1949.
Report U-2551,30 Oct 52.

BRUYEVICE 5. V.

"Outline of the Hydrochemistry of the Darents Sea", Tourky GOIN, No LO (22), 1548 (80-116)
SO: U-3037, 11 Mar 1953

- 1. BRUYEVICH, S. V.
- 2. USSR (600)

"Standardization of Temperature Correction s in pH Determination of Sea Water." Gidrokhimichoskiyo materialy, Volum XIV, 1948 (97-103).

9. Meteorologiya i Gidrologiya, No. 3, 1949.
Report U-2551, 30 Oct 52.

BUYEVIN 1, 7,

"Standardization 3 limity Corrections in Determining the pH of Sea Waters", Gidrokhim. Materialy (Hydrochesical Dit.), Vol XV, 1948 (213-229)

SO: U-3039, 11 Mar 1953

ERUYEVICH, S. V., Mbr., Sci. Council Inst. Oceanology, Dept. Geologico-Geog. Sci., Acad. Sci., 1949-.

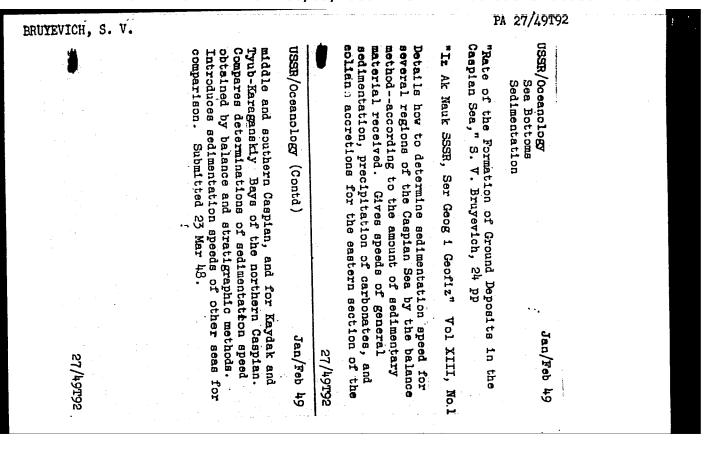
Bruyevich, S. V. - "The speed of formation of bottom deposits in the Pacific Ocean", Trudy In-ta okeanologii (Akad. nauk SSSR), Vol. 111, 1949, p. 90-118, p- Bibliog: pl6116-18.

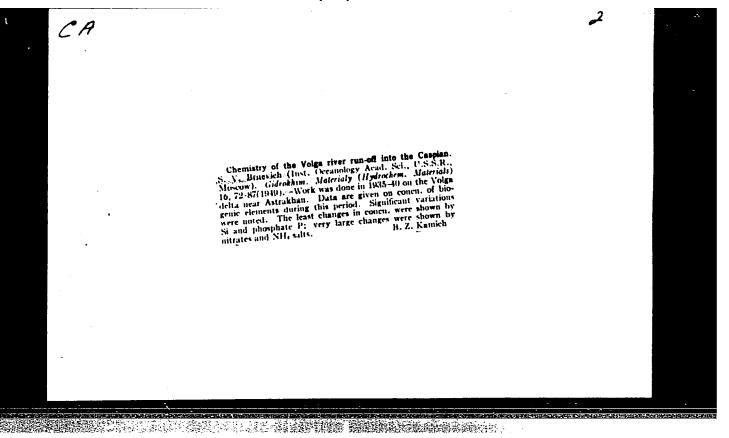
SO: U-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1949).

BRUYEVICH, S. V.

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SO: U-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1949).





1. BRUYEVICH, S. V.	
2. USSR 600	
4. Water - Black Sea	
7. Buried fresh waters under recent sediment of the Black Sea. Dokl. AN. SSS 1952. Institut Ckeanologii Akademii Nauk SSSR rcd. 26 Sept. 1951	R 84, No. 3,
9. Monthly List of Russian Accessions, Library of Congress, September 1952.	UNCLASSIFIED.